

PERSONAL INFORMATION

dr. sc. Marko Goreta



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Sex Male | Date of birth 05/04/1991 | Nationality Croatian

WORK EXPERIENCE

February 2017 – Current

University of Split, Faculty of Civil Engineering, Architecture and Geodesy, Matice Hrvatske 15, Split, Croatia
 Senior assistant (assistant until July 2023), Department for Metal and Timber Structures
 Design of metal, timber, and composite structures
 Assignments:

- Teaching and working with students.
- Working on a PhD.
- Scientific research in an experimental and numerical manner.
- Professional expertise

December 2015 – February 2017

University of Split, Faculty of Civil Engineering, Architecture and Geodesy, Matice Hrvatske 15, Split, Croatia
 Professional Associate, Department of Construction Management and Economics
 Construction management
 Assignments:

- Assistant in classes
- Working with students

EDUCATION AND TRAINING

April 2017 – current

PhD in civil engineering (graduated February 2023)
 University of Split, Faculty of Civil Engineering, Architecture and Geodesy, Matice Hrvatske 15, Split, Croatia.
 PhD dissertation title: Analysis of the influence of time-dependent strain on the load-bearing capacity of aluminium columns exposed to transient heating (experimental and numerical analysis).

September 2013 – September 2015

Master in civil engineering (Modelling of Structures Programme)
 University of Split, Faculty of Civil Engineering, Architecture and Geodesy, Matice Hrvatske 15, Split, Croatia.

September 2009 – September 2013

Bachelor in civil engineering
 University of Split, Faculty of Civil Engineering, Architecture and Geodesy, Matice Hrvatske 15, Split, Croatia.

PERSONAL SKILLS

Mother tongue(s) Croatian

Other language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1 | C1 | C1 | C1 | C1 |

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|------------------------------------|---|
| Communication skills | Good verbal and written communication skills gained through my experience as a teaching assistant and presenting at local and international conferences. Tendency for teamwork. |
| Organisational / managerial skills | Excellent organisational and prioritisation skills. Self-initiative taking responsibility while working on projects. Thoroughness and responsibility in work. |
| Job-related skills | <ul style="list-style-type: none">▪ Steel, timber and aluminium detailing▪ Conducted experimental research (both in organization and implementation)▪ Carried on complex FEM analyses (linear and nonlinear behaviour, creep)▪ Static, dynamic, and seismic analysis of reinforced concrete and masonry buildings▪ Web, desktop, and mobile programming. Software development and maintenance on different platforms |
| Computer skills | <p>Software for construction and FEM analysis:</p> <ul style="list-style-type: none">▪ ANSYS (complex FEM simulations)▪ SciaEngineer (statics and dynamics)▪ Midas Gen (statics and dynamics) + Midas GSD + Design+▪ SeismoStruct (dynamics)▪ Rocscience Phase2 (tunneling and slope stability)▪ Aspalathos (section design)▪ KI Expert (building engineering physics)▪ Tekla Structures (statics and dynamics)▪ IDEA StatiCa▪ Robot Structural Analysis <p>Software for drawing (creation and editing):</p> <ul style="list-style-type: none">▪ Autodesk (AutoCAD, Structural Detailing, Robot)▪ CorelDraw▪ PhotoScape▪ Allplan▪ Parabuild Steel <p>Software for text editing:</p> <ul style="list-style-type: none">▪ Microsoft Office (Word, Excel, PowerPoint...)▪ Libre Office▪ Google Docs <p>IDE with corresponding programming languages for mobile, web and software development:</p> <ul style="list-style-type: none">▪ Visual Studio (C++, C#), Visual Studio Code (ReactJS)▪ Android studio (Java-android)▪ Eclipse (Java)▪ LightTable, PyCharm (Python)▪ Webstorm (HTML(5), CSS(3), Bootstrap, JavaScript – jQuery)▪ AutoCad API + ObjectARX (C# programming in AutoCAD)▪ Unity C#▪ Intel Parallel Studio (Fortran)▪ VBA (Microsoft Word, Microsoft Excel) |
| Other skills | <p>Enjoying to work with electronics (sensors, microcontrollers..). Carried on a project at a local festival of science in 2019 about heat transfer with the use of Arduino microcontrollers (HeatVIS). Promotional video available at: https://vimeo.com/328149578</p> <p>Passionate about agriculture and growing berry fruits.</p> <p>Creation and publication of software Saiyan – design of reinforced concrete elements according to HRN EN 1992 i HRN EN 1998 www.saiyan-mg.com.</p> <p>More details are available on the personal website: www.markogoreta.com.</p> |
| Driving licence | Driving licence category B |

ADDITIONAL INFORMATION

- Publications**
- Goreta, M., Torić, N., Boko, I. & Lovrić Vranković J. (2023). The Effect of Creep on Time-Dependent Response of Aluminium Frame Structures. *Fire Technology*. <https://doi.org/10.1007/s10694-023-01491-8>
- Goreta, M., Torić, N., Boko, I., & Divić, V. (2022). Behaviour of Aluminium EN AW 6082 T6 Columns Exposed to Transient Heating—Experimental and Numerical Analysis. *Metals*, 12(8), 1326. <https://doi.org/10.3390/met12081326>
- Goreta, M., Torić, N., & Boko, I. (2021). Calibration of an existing creep model for analysis of aluminium members exposed to constant temperature. *International Journal for Engineering Modelling*, 34(2 Regular Issue), 1-15. <https://doi.org/10.31534/engmod.2021.2.ri.01m>
- Projects**
- Project by the Croatian Science Foundation (UIP-2014-09-5711) titled “Influence of creep strain on the load capacity of steel and aluminium columns exposed to fire” by Prof. Neno Torić. More details about the project are on the website: http://gradst.unist.hr/eng/research/projects/hrzz-projects/hrzz_puzanje_en
- IRI-2 project “Increasing the development of new products in timber industry used in civil engineering” (KK.01.2.1.02.0330) from 2021 to 2023.
- More than 50 professional projects in Civil Engineering.
- Conferences**
- M. Goreta, N. Torić, and I. Boko, “Failure analysis of an aluminium warehouse columns due to time-dependent strain,” in *Proceedings of the 13th International Conference on Structures in Fire*, 2024, pp. 1127–1136.
- M. Goreta, N. Torić, and I. Boko, “The effect of high-temperature creep on EN6082 T6 aluminium columns exposed to transient heating,” in *Proceedings of the 12th International Conference on Structures in Fire*, 2022, pp. 491–501.
- M. Goreta, N. Torić, V. Divić, and I. Boko, “Testing the influence of creep on fire-exposed aluminium columns,” in *9th International Congress of Croatian Society of Mechanics*, 2018, no. September, p. 10.
- N. Torić, I. Boko, I. W. Burgess, and M. Goreta, “Experimental analysis of the influence of creep on fire-exposed steel and aluminium columns,” in *The 10th International Conference on Structures in Fire*, 2018, p. 6.
- Seminars**
- Leading the course for Split Summer School (3rd – 7th September 2018) entitled “Structural fire engineering analysis”.
- Leading the course for Split Summer School (26th – 30th August 2024) entitled “Structural fire engineering analysis”.
- Honours and awards**
- Dean’s award for success as a student (GPA) 2014/2015